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**Kasami et al.**(10) **Pub. No.: US 2002/0181492 A1**(43) **Pub. Date: Dec. 5, 2002**(54) **WIRELESS COMMUNICATION APPARATUS****Publication Classification**(76) **Inventors:** Hideo Kasami, Kawasaki-shi (JP);  
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(JP); Tomoko Adachi, Urayasu-shi (JP)(51) **Int. Cl.<sup>7</sup>** ..... H04L 12/413(52) **U.S. Cl.** ..... 370/445; 370/328**Correspondence Address:****OBLON SPIVAK MCCLELLAND MAIER &  
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ARLINGTON, VA 22202 (US)**(57) **ABSTRACT**

The wireless communication apparatus includes transmitter modules and receiver modules for carrying out transmission/reception via a plurality of antenna beams formed by an adaptive array antenna between stations. The apparatus is provided with an end time detecting section and a maximum reception end time is detected by detecting section based on reception signals on the receiver modules. A reception end signal is generated from a notifying section, when current time counted by a counter is reached to the maximum reception end time. The transmission enabling section causes the transmitter modules to transmit data in response to the reception end signal.

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